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alcohol is eliminated from the body by various metabolic mechanisms the primary enzymes involved are aldehyde dehydrogenase aldh alcohol dehydrogenase adh cytochrome p450 cyp2e1 and catalase variations in the genes for these enzymes have been found to influence alcohol consumption alcohol related tissue damage and alcohol dependence metabolism of ethanol is a two step process driven by the action of two enzymes alcohol dehydrogenase adh which oxidizes ethanol to acetaldehyde and aldehyde dehydrogenase aldh which oxidizes acetaldehyde to acetate most alcohol is oxidized in the liver and general principles and overall mechanisms for alcohol oxidation will be summarized the kinetics of alcohol elimination in vivo and the various genetic and environmental factors which can modify the rate of alcohol metabolism will be discussed this chapter describes the clinical biochemistry of alcohol after ingestion alcohol is rapidly absorbed by diffusion principally from the upper small intestine but with minor gastric absorption metabolism of alcohol occurs primarily in the liver through two different oxidative pathways the activity of each pathway depends on the ethanol concentration and the frequency of ethanol consumption clinical biochemistry of alcoholism the stated purpose of this book is to bring together clinicians and biochemists to examine some of the origins and effects of alcohol overindulgence the book covers two principal areas the alcoholic in the community and the hospitalized alcoholic treatment of alcohol dependence and alcohol related disorders accounts for almost 15 of america s total health bill this review will discuss the biochemical basis for the harmful effects of alcohol the chapters cover a broad array of disciplines including an overview of historical and epidemiological aspects biochemistry and molecular genetics of enzymes involved in alcohol metabolism biochemical and neuropsychopharmacological effects of alcohol alcohol dehydrogenase adh and the microsomal ethanol oxidizing system meos play a major and important role in the oxidation of ethanol to acetaldehyde in various organs and tissues agarwal and goedde 1984 the biology of alcoholism jack h mendelson 328 accesses 25 citations abstract alcoholism has only recently been shown to be a form of addiction defined in terms of the traditional pharmacological criteria of tolerance and dependence isbell et al 1955 mendelson 1964 what remains obscure is the mechanism whereby chronic alcohol abuse leads to permanent damage to the liver and other organs recent research suggests that acetaldehyde a metabolite of alcohol may play a key role in this process first published 20 may 2019 doi org 10 1002 wfs2 1340 citations 41 read the full text pdf tools abstract the ethanol contained in alcoholic beverages is rapidly absorbed from the gastrointestinal tract and the maximum blood alcohol concentration bac is usually reached between 10 and 60 min postdosing although alcohol ethanol is metabolised via a simple oxidative pathway mainly in the liver its presence even in moderate amounts can profoundly affect the balance of other biochemical pathways alcohol induced liver injury is linked to oxidative stress as observed by decreased level of reduced glutathione and ascorbic acid and increased level of thiobarbituric acid reactive substances key words alcohol biochemical marker g glutamyltransferase aminotransferase glutathione 3 clinical biochemistry of alcoholism richard fink sidney b rosalki biochemical investigation can make a major contribution to the recognition and management of alcoholism it can facilitate the identification of excessive drinking can monitor the progress and treatment of the alcoholic and can identify hepatic and non hepatic complications the most sensitive and specific of the commonly used biomarkers of alcohol intake are carbohydrate deficient transferrin cdt and the combination of gamma glutamyltransferase ggt and cdt other widely used laboratory markers are ggt mean corpuscular volume of erythrocytes and the ratio of aspartate aminotransferase to alanine aminotransferase background alcohol related liver disease ald is a major health concern worldwide but effective therapeutics for ald are still lacking tumor necrosis factor inducible gene 6 protein tsg 6 a cytokine released from mesenchymal stem cells was shown to reduce liver fibrosis and promote successful liver repair in mice with chronically damaged livers however the effect of tsg 6 and the pp 307 325 cite this chapter download book pdf download book epub the biology of alcoholism carroll m leevy abdul kerim tanribilir francis smith 316 accesses 4 citations abstract the gastrointestinal tract is the guardian of the body for both pleasurable and untoward effects of alcoholic beverages home medical tests blood alcohol level what is a blood alcohol test a blood alcohol test measures the amount of alcohol in a sample of your blood you will have alcohol in your 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